

Materials Acceptance Requirements					
See Miscellaneous area at the end of table for materials deleted from the 2003 Standard Specifications for Construction. * Must be tested unless provided by an Approved Manufacturer					
Spec. No. Material Name	Basis of Acceptance	Sample Frequency If Req'd	Sample Size	Max. V.I. Quantity	Remarks (QPL Reference)
<b>401.03G</b> End Section Grate for Culverts	VI	—	—	—	See Std. Plans for Sizes
<b>404</b> Precast Concrete End Rings	VI	—	—	—	
<b>603.02B</b> Adhesive Systems for Grouting Dowel Bars and Tie Bars for Full-Depth Concrete Pavement Repairs  NOTE: Use for grouting to existing concrete in the same direction of traffic in the same lane as the repair. For grouting lane ties (deformed bars positioned transverse to the direction of traffic located between traffic lanes) select from Adhesive Anchor Systems (for Structural Anchors and Lane Ties.	QPL	—	—	—	Must be a Qualified Product (712.03J)
<b>603.03B12</b> Bond Breaker Tape	VI	—	—	—	
<b>603.02H</b> Dowel Bar Expansion Caps	VI	—	—	—	Caps must conform to Std Plan R-40 Series
<b>702.02A</b> Standard Mortars and Grouts	VI	—	—	—	
<b>702.02B</b> Non-Shrinking Mortar and Grout Type H-1(Non- Metallic) Pre Mixed	QPL	—	—	—	Must be a Qualified Product (712.02B)
<b>702.02C</b> Admixture for Expansive Grout Type E-1  NOTE: Certification to include manufacturer's recommended dosage per sack of cement. Include all Gen Cert documentation and sample of the cement with which it is being used with CV samples.	Gen Cert	—	—	—	
<b>703</b> Prepackaged Hydraulic Fast Set Patching Mortar/Grout	QPL	—	—	—	Must be a Qualified Product (703.02B-SP)
<b>704</b> Steel Sheet Piling	VI	—	—	—	
<b>706.03S</b> Penetrating Water Repellent (Protective Coating for Concrete)	QPL	—	—	—	Must be a Qualified Product (706.03S)
<b>707.03C11</b> Bushings for Pins & Link plates	QPL	—	—	—	Must be a Qualified Product (707.02)
<b>708.03A</b> Prestressed Concrete Bridge Beams	Fabrication Inspection	—	—	—	QA Manual Sec. D8
<b>710.02</b> Asphalt Cement (WOA)	Test or Tested Stock	1 per batch	1 qt	5 gal	Water-proofing Agent
<b>710.03D</b> Waterproofing Shotcrete	VI	—	—	—	
<b>712.03A1c</b> Abrasive, Low Dusting	QPL	—	—	—	Must be a Qualified Product (715.02)

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<b>712.03J</b> Adhesive Anchor Systems for Structural Anchors & Lane Ties	QPL	—	—	—	Must be a Qualified Product (712.03J)
<b>712.03L</b> Mechanical Reinforcement Splicing Other Types of Splices, Swaged	Test QPL	1 per proj 1 per proj.	5 splices 2 splices	—	See NOTE Must be a Qualified Product (712.03L)
NOTE: The contractor must make test splices, witnessed by the Engineer, on the smallest and largest bar sizes that are to be spliced. Test splice consist of 2 pcs. of reinforcing bar joined by the coupler with a minimum of 12 inches of bar exposed on each end of the coupler.					
<b>712.03X</b> Grout under Masonry plates	VI	—	—	—	—
<b>713.02B</b> Sealant for Perimeter of Beam Repairs	QPL	—	—	—	Must be a Qualified Product (713.02B)
<b>715.02</b> Coating Systems for New Hanger Assemblies	QPL See Remark	—	—	—	Must be a Qualified Product (915.01)
<b>803.02</b> Pipe Railing for Steps (Galvanized)	VI	—	—	—	
<b>804.01</b> Glare Screen	VI	---	---	—	Included in Conc. Spec.
<b>808.03B</b> Temporary Fence Materials	VI	—	—	—	
<b>901</b> Cement	Appr Mfr *	See Remark	10 lb	45 ton	See Special Instructions
<b>901.06</b> Ground Granular Blast-Furnace Slag	Appr Mfr * With Cement Sample	See Remark for Cement	10 lb		See Special Instructions for Cement and Fly Ash note.
<b>901.07</b> Fly Ash, Pozzolanix Admixtures for concrete The fly ash sample is to be accompanied by a sample of the cement with which it is being used. MDOT-furnished plastic-lined cement sample bags will hold 4540 g when FULL.	Appr Mfr * With Cement Sample	—	10 lb	—	See note
<b>902</b> Coarse Aggregates	Test, See Remark	1 per 1000 ton	60 lb	100 ton	If Prequalified Supplier, see QA manual Section C-6 for sample frequency
<b>902</b> Dense-Graded Aggregates	Test, See Remark	1 per 1000 ton	60 lbs	500 ton	If Prequalified Supplier, see QA manual Section C-6 for sample frequency
<b>902</b> Open-Graded Aggregates	Test, See Remark	1 per 1000 ton	60 lb	100 ton	If Prequalified Supplier, see QA manual Section C-6 for sample frequency
<b>902</b> Granular Material Class I	Test, See Remark	1 per 1000 ton	60 lb	100 ton	If Prequalified Supplier, see QA manual Section C-6 for sample frequency

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<b>902</b> Granular Material Class II (Subbase) & Class IIA	Test, See Remark	1 per 3000 cyd	60 lb	500 cyd	If Prequalified Supplier, see QA manual Section C-6 for sample frequency
<b>902</b> Class II (Abutment B. F.)	Test, See Remark	1 per structure	60 lb	100 cyd	If Prequalified Supplier, see QA manual Section C-6 for sample frequency
<b>902</b> Granular Material Class III	Test, See Remark	1 per 10,000 cyd	60 lb	500 cyd	If Prequalified Supplier, see QA manual Section C-6 for sample frequency
<b>902</b> Granular Material Class IIIA	Test, See Remark	1per 1000 cyd	25 lb	100 cyd	If Prequalified Supplier, see QA manual Section C-6 for sample frequency
<b>902</b> Fine Aggregate	Test, See Remark	1 per 1000 tons	25 lb	100 ton	If Prequalified Supplier, see QA manual Section C-6 for sample frequency
<b>902</b> Mineral Filler for HMA Mixtures	Appr Mfr * See Remark	1 per proj	1 qt	10 ton	Refer to Asphalt Binder Procedures Manual
<b>903.01</b> Air Entraining Admixtures	QPL	—	—	—	Must be a Qualified Product (903.01)
<b>903.02</b> Concrete Accelerators 1. Calcium Chloride 2. All others	VI QPL	—	—	—	For Calcium chloride note the chemical composition. Other accelerators must be Qualified Products (903.02)
<b>903.03</b> Water Reducing and Water Reducing Retarding Admixtures for Concrete	QPL	—	—	----	Must be a Qualified Product (903.03)
<b>903.04</b> Latex Admixture for Concrete	Appr Mfr *	1 per lot	1 qt		
<b>903.05</b> Membrane Curing Compound	Test Data Cert	1 per lot or batch	1 qt	200 gal	
NOTE: Curing compounds must not be used after ONE year from manufacture. Date of manufacture must be clearly printed on the outside of containers.					
<b>903.06B</b> Interim Curing (Linseed Oil Based)	Test Data Cert	1 per lot or batch	1 qt	50 gal	See NOTE for 903.05
<b>903.06C</b> Insulating Blanket	Test Data Cert	—	—	10 sheets	
<b>903.06D</b> Polystyrene Insulation	Test Data Cert	—	—	—	
<b>904.03A</b> Asphalt Binder for HMA mixtures	Appr Mfr *	1 per day's production of Mix	1 pint	5 ton per day or 27 tons per proj	Refer to <i>Procedure Manual for Certification of Hot Mix Asphalt Plants</i> for additional requirements.

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<b>904.03B</b> Liquid Asphalt (MC)	Test or Tested Stock	1 per batch	See Remark		1 gal. from the top and 1 gal. from the bottom of tank
<b>904.03B</b> Liquid Asphalt (RC-250)	Test or Tested Stock	1 per batch	2 qt	5 gal	
<b>904.03C</b> Emulsified Asphalt	Appr Mfr *	1 per batch	See Remark	1000 gal	1 gal. from the top and 1 gal. from the bottom of the tank. Submit sample in plastic or glass containers only.
<b>904.03D</b> Polymer Modified Asphalt Cement for Overband Crack Fill	Gen Cert See Remark	—	—	—	Contractor Certified or Supplier Certified
<b>904.03D</b> Polyester Fibers for Overband Crack Fill	Gen Cert	—	—	—	
<b>905.03</b> Bar Reinforcement (Uncoated)	Appr Mfr *	1 per proj per mfr	See Remark	500 lb	2 pcs., 1 24 in min. & 1 36 in min. Second piece must be 48 in min. for #9, #10, #11 bars
<b>905.03C</b> Bar Reinforcement (Epoxy coated) 1. Bar 2. Epoxy Coating Companies 3. Epoxy Coating Material	Appr Mfr * Appr Mfr * QPL	1 per proj per mfr	See NOTE	500 lb	(905.03C1)  NOTE: Sample ID to include name of Epoxy Coating Co., Epoxy Resin trade name and lot no., Bar Manufacturer and heat no. Sample size, 3 pcs., 1 of which is 24in. min & 2 of 36 in min. A Third piece shall be 48 in min. for #9, #10, #11 bars.
<b>905.06</b> Welded Steel Wire Reinforcement (Mesh)	Appr Mfr *	1 per proj per mfr	See Remark	500 syd	See NOTE  NOTE: One piece, full width of fabric with two transverse wires. Longitudinal wires must extend 6 in to 8 in either side of transverse wires. Sampling not required when larger wire is less than 0.13 " (w1.5) in dia. Include on sample ID the size that the wires are supposed to be. Sample may be folded or cut into approx. 3 ft sections. If cut, pcs. should be wired together and ID'ed.
<b>905.07</b> Strand for Prestressed Concrete	Appr Mfr *	1 per heat	2 pcs. each 80" long		Obtain sample 5 ft from end of reel
<b>905.08</b> Tendons for Post Tensioning of Box Beams - Prestressing Strand	Appr Mfr * See Remark	1 per heat	2 pcs. each 80" long		Sampling and testing may be waived if strand from same reel is tested for beam fabrication. Obtain sample at least 5 ft from end of reel.
<b>905.08</b> Tendons for Post Tensioning of Box Beams - Bar	Test	1 per heat per proj	15"		Type A certification must be attached to Sample Identification form for lab testing.
<b>906</b> Structural Steel	Fabrication Inspection	—	—	—	QA Manual Sec. D-10
<b>906.05</b> Foundation Piles : H Piling, Steel Shells and Pile Points	Test Data Cert	—	—	—	

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<b>906.05</b> Pile Cutoffs	VI	—	—	—	
<b>906.06</b> High Strength Steel Bolts	Test	1 per dia per length per heat per proj	3 each bolts, nuts & washers		Bolt, nut & washer Test Data Cert must identify the manufacturer and must be attached to the Sample ID
<b>906.08</b> Shear Developers (Studs)	QPL or Test Data Cert See Remark	—	—	—	(906.08) Other stud shear developers may be used provided the supplier certifies that the studs meet the requirements of AWS D1.5-96, All section 7.
<b>907.03</b> Woven Wire Fencing Materials A. Woven Wire B. Barbed Wire C. Smooth Line Wire	VI	1 per proj per mfr	Full width of roll 5 ft 6 ft 4 ft	1000 ft	
<b>907.03</b> D. Steel Posts	VI	1 per proj per mfr	See Remark	See Remark	See Special Instructions  NOTE: An alternative zinc/clear coat system will be allowed for pipe sections only. This alternative coating system shall comply with subsection 907.03D of the Standard Specifications for Construction.
<b>907.03</b> E. Treated Wood posts	Appr Mfr * Or Tested stock	Each charge	22 cores	25 posts	
<b>907.03</b> F. Gates G. Fence Fittings and Hardware	VI	—	—	—	
<b>907.04</b> Steel Chain Link Fence Materials A. Fabric	Test or Tested Stock	See Remark	5 ft full width of roll	250 ft	1 per height and or mesh size, per proj and 1 per mfr per proj
<b>907.04</b> B. Tension Wire	Gen Cert	1 per proj per mfr	5 ft	500 ft	
<b>907.04</b> C. Post for Fence & Gates (Steel)	Gen Cert	1 per proj per mfr	See Remark	See Remark	See Special Instructions  NOTE: An alternative zinc/clear coat system will be allowed for pipe sections only. This alternative coating system shall comply with subsection 907.03D of the Standard Specifications for Construction.
<b>907.04</b> D. Gates E. Fence Fitting and Hardware	VI	—	—	—	
<b>907.04</b> F. Top Rail (Horz. Rail)	Test	1 per proj per mfr See Remark	5 ft	250 ft	Weigh 5 Rails to determine the average weight per foot and include the weight info on Sample ID.  NOTE: An alternative zinc/clear coat system will be allowed for pipe sections only. This alternative coating system shall comply with subsection 907.03D of the Standard Specifications for Construction.
<b>907.04</b> G. Post for Chain Link Pedestrian Fence (Structure Fencing)	Test	1 per proj per mfr See Remark	5 ft straight piece	25 post	Weigh 5 Posts to determine the average weight per foot and include the weight info. on Sample ID.  NOTE: An alternative zinc/clear coat system will be allowed for pipe sections only. This alternative coating system shall comply with subsection 907.03D of the Standard Specifications for Construction.

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<b>907.04</b> H. Rail for Braces for Chain Link Pedestrian Fence	Test	1 per proj and 1 per mfr	5 ft	250 ft	Weigh 5 Rails to determine the average weight per foot and include the weight info. On Sample ID.  NOTE: An alternative zinc/clear coat system will be allowed for pipe sections only. This alternative coating system shall comply with subsection 907.03D of the Standard Specifications for Construction.
<b>907.05</b> High Tensile Wire Fence A. Wire	Test	1 per proj per mfr	6 ft	250 ft	
<b>907.05</b> B. Treated Wood Posts for High Tensile Wire Fence	Appr Mfr * or Tested Stock	Each charge	22 cores	25 posts	See Note  NOTE: All post must be treated including Northern White Cedar. General Cert document required for Northern White Cedar in lieu of approved manufacturer.
<b>907.05</b> C. Hardware	VI	—	—	—	
<b>907.06</b> Protective Fence	VI	—	—	—	
<b>908.03</b> Malleable Iron, Steel, & Gray Iron Casting & Manhole Casting	VI	—	—	—	
<b>908.07</b> Sheet Lead	Gen Cert	—	—	25 sft	
<b>908.08</b> Sheet Copper	Test	1 per consignment	13 in square or equivalent area	25 sft	May be accepted in field if weight requirements can be documented
<b>908.09</b> Cast Aluminum Alloy Posts	Test Data Cert	—	—	—	
<b>908.10</b> Tubing, Steel Railing (Galvanized) A. Base Plate and Post Elements	Test or Tested Stock See Remark	1 per heat per proj	1 base plate, 1 post min. 15 in length		Test Data Cert. Document must be attached to the sample ID. Test report to P.E.
<b>908.10</b> B. Rail Elements (Tube)	Test or Tested Stock See Remark	1 per heat per proj	48 in long, galv.		Chemical analysis must include silicon. Test Data Cert. Document must be attached to the sample ID. Test Report to P.E.
<b>908.11</b> Hardware for Timber Construction	VI	—	—	—	
<b>908.12</b> Guardrail, Steel Beam Elements, End Sections	Appr Mfr *	1 per projec, per mfr	1piece at least 3 ft length	125 ft	Including Anchorage, Bridge, Shoes, Departing End Terminals
<b>908.12A</b> Guardrail Approach Terminals	Appr Mfr *	—	—	—	
<b>908.12</b> B. Hardware C. Steel Sleeves, Soil Plates, Bearing Plates, Backup Plates	VI	—	—	—	Item Supplied by Guardrail Supplier

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<b>908.12</b> Wire Rope	Gen Cert	—	—	—	
<b>908.13</b> Steel Posts for Beam Guardrail	Appr Mfr *	—	1 post	25 posts	
<b>908.14</b> Reflective Washers	VI See Remark	—	—	—	Inspect galvanizing, dimensions & type of sheeting
<b>908.15</b> Anchor Bolts, Anchor Studs, Anchor Rods & Anchor Base Plates	Test See Remark, ** See Remark	1 per heat per diameter per proj	1 bolt , nut, washer, coupling and base plate if applicable	—	Non MDOT Standard Plan Bolts require Shop Drawings along with the Test Data Cert Document. ** For Cantilever foundations: 1 per heat per dia. per foundation, max 3 per project.
<b>909.03</b> Watertight Joint Systems	QPL	—	—	—	Must be a Qualified Product (909.03)
<b>909.03</b> Gasket, Compression (O-Rings)	VI	—	—	—	Part of Watertight Joint System
<b>909.04A</b> Reinforced Concrete Pipe	Appr Mfr *	1% of number of pcs. of each size	See Remark	5pieces of 42 in or smaller	See Special Instructions
<b>909.04B</b> Reinforced Concrete Elliptical Pipe	Appr Mfr *	1% of number of pcs. of each size	See Remark	5 pieces of 42 in or smaller	See Special Instructions
<b>909.04C</b> Non-reinforced Concrete Pipe	Appr Mfr *	See Remark	See Remark	10 pcs.	See Special Instructions
<b>909.04D</b> Precast Concrete Box Sections	Appr Mfr *	—	—	—	
<b>909.04E</b> Precast Concrete End Section for Culverts & Sewers	Appr Mfr *	1% of number of pcs	Full size units	10 pcs.	Strength test by coring or cylinders, VI dimensions & conditions. Test for Air content
<b>909.05A</b> Corrugated Steel Pipe	Appr Mfr *		See Remark		See Special Instructions
<b>909.05A</b> Gasket, External Rubber Type	VI	1 per lot or shipment	18 in length, full width of gasket		Part of Watertight Joint System
<b>909.05A1</b> Corrugated Steel Sheets (Galvanized)	Gen Cert	See Remark	See Remark		See Special Instructions
<b>909.05A</b> Polymer Coated, Galvanized Corrugated Steel Pipe	QPL	—	—	—	Coating must be from Qualified Products List (909.05-SP)
<b>909.05A4</b> Coupling Bands	Gen Cert	—	—	5 pcs.	
<b>909.05B</b> Corrugated Aluminum Alloy Sheet	Gen Cert	See Remark	See Remark	25 sheets	See Special Instructions

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<b>909.05B</b> Corrugated Aluminum Alloy Pipe	Gen Cert	1 per 1000 ft	See Remark	250 ft	Sample Size: A 6 in by 3 in (minimum) section cut from the end of the pipe avoiding the seams. Do not damage coating.
<b>909.05C</b> Metal End Section	Gen Cert	—	—	4 pcs.	
<b>909.05D</b> Steel Pipe (Jacked-in-place)	VI	—	—	—	
<b>909.06A</b> 1. Corrugated Polyethylene Pipe (Smooth Lined Type S or Corrugated Type C)	Test or Tested Stock if $\geq 12$ in Dia.	$\geq 12$ in dia 1 per 1000 ft straight lengths	See Remark	12 in dia and over, 100 ft	Over 12 in dia.- one 10 ft length and one 6 ft length plus coupling See special instruction No. 909.06
<b>909.06A</b> 2. Corrugated Polyvinyl Chloride (PVC) Pipe (Smooth Lined Type S or Corrugated Type C)	Test	$\geq 12$ in dia 1 per 1000 ft straight lengths	See Remark	12 in dia and over, 100 ft	Over 12" dia.- one 10 ft and one 6 ft length plus coupling
<b>909.06B</b> 1. Smooth Polyvinyl Chloride Pipe for Sanitary Sewer Pipe	Test	1 per 6000 ft	1 piece, 5 ft in length	600 ft	If bell and spigot joint, sample from bell end
<b>909.06B</b> 2. Corrugated Polyvinyl Chloride (PVC) Pipe (Smooth Lined Type S) for Sanitary Sewer Pipe	Test	1 per 1000 ft	See Remark	12 in dia and over, 100 ft	Over 12 in dia.- one 10 ft length and one 6 ft length plus coupling
<b>909.07</b> Pipe for Under-drains 1. Corrugated Steel pipe	Appr Mfr *	See Remark	See Remark		See Special Instructions for 909.05A
<b>909.07</b> Pipe for Under-drains 2. Corrugated Aluminum Alloy Pipe	Gen Cert	1 for 1000 ft	6 in x 3 in	250 ft	
<b>909.07</b> Pipe for Under-drains 3. Smooth Plastic Pipe (Outlet Pipe)	Test	1 per 2500 ft or fraction thereof	5 ft length	250 ft	
<b>909.07</b> Pipe for Under-drains 4. Corrugated Plastic Tubing (Perforated & Non-Perforated) (Wrapped & Non-Wrapped)	Appr Mfr * 4-, 6-, or 8-in dia.	1 per 5000 ft Sample from coils	See Remark	250 ft	Sample Size, One 10 ft length plus coupling. For perforated tubing wrapped in fabric, tie fabric securely in place before cutting sample.
<b>909.07</b> Pipe for Under-drains 5. Porous Concrete Pipe	VI	—	—	—	
<b>909.07</b> Pipe for Under-drains 6. Perforated Concrete Pipe	VI	—	—	—	
<b>909.07</b> Pipe for Under-drains 7. Perforated Clay Pipe	VI	—	—	—	
<b>909.07C</b> Outlet Endings (for under-drains)	VI	—	—	—	



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<b>909.08A</b> Bridge Decks Down-Spouts 1. Polyethylene (PE) Plastic Pipe	VI				
<b>909.08B</b> Other Down-spouts 1. Corrugated Steel Pipe	Appr Mfr *	See Remark	See Remark		See Spec. 909.07 Corr. Steel Pipe.
<b>909.08B</b> Other Down-spouts 2. Corrugated Aluminum Alloy Pipe	Gen Cert	1 per 1000 ft	6" x 3"	250 ft	
<b>909.08B</b> Other Down-spouts 3. Corrugated or Smooth lined Corrugated Polyethylene Pipe	Test or Tested Stock	See Remark	See Remark	<12" dia. up to 250' >12" dia up to 100'	See Spec. 909.06A
<b>909.08C</b> Bridge Deck Drain Extensions (Fiberglass)	QPL	—	—	—	Must be a Qualified Product (909.08C)
<b>909.09</b> Cold Applied Pipe Joint Sealer (Mastic)	Test or Tested Stock	1 per shipment from a single container	1 quart	10 gal.	
<b>909.10</b> Drainage Marker Post	See Delineator Posts	—	—	—	
<b>910.03A</b> Geotextiles 1. Blankets	Test Data Cert	See Remark	See Remark	See Remark	See Special Instruction 910.03
<b>910.03A</b> Knitted "Sock" Pipe Wrap	See remarks	—	—	—	See 909.07 Certified with Corrugated plastic Tubing.
<b>910.03B</b> Liner for Rip-rap	Test Data Cert	See Remark	See Remark	See Remark	See Special Instruction 910.03
<b>910.03B</b> Liner for Heavy Rip-rap	Test Data Cert	See Remark	See Remark	See Remark	See Special Instruction 910.03
<b>910.03C</b> Separator/ Stabilization Geotextile	Test Data Cert	See Remark	See Remark	See remarks	See Special Instruction 910.03
<b>910.03D</b> Geogrids	Test	1 per type per proj	1 pc. 6 ft long full roll width	---	Sample must be <u>rolled</u> not folded
<b>910.05A</b> Prefabricated Drainage System	Appr Mfr *	1 per 10000 ft or less	1 pc. 6 ft long plus 3 syd filter-wrap	---	Test Data Cert must be attached to sample ID Form
<b>910.05B</b> Wall drain	Test	1 per 1000 ft or less	1 pc. 6 ft long plus 3 syd Filter-wrap	100 sft	
<b>911</b> Water	Test See Remark	1 per source	1 quart		Water approved for drinking by the Michigan Dept. of Public Health may be used without sampling and testing

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<b>912.06</b> Structural Timber & Lumber	Appr Mfr *	Each Charge	22 cores See Remark		48 cores if treatment is creosote
<b>912.07</b> Timber piles	VI	—	—	—	
<b>912.08</b> Treated Wood Fence Posts	Appr Mfr * or Tested Stock	Each Charge	22 cores	25 posts	See note  NOTE: All post must be treated including Northern White Cedar. General Cert document required for Northern White Cedar in lieu of approved manufacturer.
<b>912.08B</b> Guide Posts, Guard & Mail Box Posts	Appr Mfr *	Each Charge	22 cores	25 posts	Cedar post need not be treated  NOTE: All post must be treated including Northern White Cedar. General Cert document required for Northern White Cedar in lieu of approved manufacturer.
<b>912.09</b> Wood Guardrail Post & Blocks (Dimension Sawed)	Appr Mfr * or Tested Stock	Each Charge	22 cores		
<b>912.09.Q</b> Recycled Plastic or Rubber Guardrail Offset Blocks	QPL	—	—	—	Must be a Qualified Product May only be used on Steel Posts. (912.09Q)
<b>912.10</b> Timber for Rustic Construction	Gen Cert	—	—	—	
<b>913.03</b> Clay and Sand Lime Brick & Block	Test	1 per 250,000 or fraction thereof	6 pcs.	1000 pcs.	
<b>913.03B</b> Concrete Brick	Appr Mfr *	See Remark	6 pcs.	1000 pcs.	1 from each 10,000 bricks or fraction thereof 2 from lots more than 10,000 to 100,000 3 from each lot over 100,000
<b>913.05</b> Concrete Block	Appr Mfr *	See Remark	4 pcs.	1000 pcs.	One from lot of 10,000 or fraction thereof 2 from lots more than 10,000
<b>913.06</b> Precast Reinforced Concrete Units for Drainage	Appr Mfr *	1% per size	See Remark	10 pcs. total	Submit QA cylinder test results and core samples. Submit sample 1-3 in <sup>2</sup> from wall of unit if absorption is required.
<b>913.07</b> Precast Concrete Bases, Sumps	Appr Mfr *	5 % of total		10 pcs. total	
<b>913.08</b> Structural Tile	Test	1 per proj	6 tiles	1000 tiles	
<b>913.09</b> Slope Pavement Blocks	Appr Mfr *	1 per 25,000	6 blocks	1000 pcs.	

Materials Acceptance Requirements					
See Miscellaneous area at the end of table for materials deleted from the 2003 Standard Specifications for Construction. * Must be tested unless provided by an Approved Manufacturer					
Spec. No. Material Name	Basis of Acceptance	Sample Frequency If Req'd	Sample Size	Max. V.I. Quantity	Remarks (QPL Reference)
<b>914.03</b> Bituminized Fiber Joint Filler	Appr Mfr *	1 per 1000 sft or fraction thereof	2' See Remark	150 sft	Sample for structure to be at least 5 in wide 1/4 inch filler need not be sampled
<b>914.04A</b> Hot-Poured Joint Sealant	Test or Tested Stock	1 per batch from a single container	5 lb	100 lb	Do not submit melted samples
<b>914.04B</b> Backer Rod for Use with Hot-Poured Joint Sealant	VI	—	—	—	
<b>914.04C</b> Neoprene Joint Seals	Appr Mfr * or Tested Stock	1 per size per lot	See Remark	100 ft	See Special Instructions
<b>914.04D</b> Lubricant Adhesive for Neoprene Joint Seals	Gen Cert	—	----	—	
<b>914.05</b> Epoxy Binder, For Joint Spall Repair	Test or Tested Stock	1 per lot or batch number	See Remark	5 gal.	See Special Instructions
<b>914.06</b> Epoxy Resin Adhesive & Temporary Seal (Crack Injection)	QPL	—	—	—	Must be a Qualified Product (914.06)
<b>914.07</b> Transverse Pavement Joints 1. Dowel Bars 2. Epoxy Coating Companies 3. Epoxy coating Material	Appr Mfr * Appr Mfr * QPL	1 per proj per mfr	1 bar	240 bars	Coating must be Qualified Product (914.08Aii)
<b>914.07</b> 2. Assemblies	VI Fabrication inspection	1 per 3000 assemblies or fraction thereof	Full size unit		QA Manual Sec. D12
<b>914.07</b> 3. Bond Release	QPL or VI See Remark	—	—	—	Must be a Qualified Products or meet Std. Spec 914.07A (914.07A)
<b>914.08</b> End-of-Pour Joint Devices A. Hook Bolts	VI	—	—	—	
<b>914.08</b> B. Deformed Bars Bars Epoxy Coating	Appr Mfr *  QPL	1 per proj per mfr		500 lb	Epoxy Coating must be Qualified Product (914.08Aii)
<b>914.09</b> Straight & Bent Tie Bars for Longitudinal Pavement Joints (Lane Ties) Bars Epoxy Coating	Appr Mfr *  QPL	1 per proj per mfr	See Remark	500 lb	1 pc 24 in and 2pcs 36 in.  Coating must be a Qualified Product (914.08Aii) See Note
NOTE: Epoxy Coating must be a Qualified Product. Sample ID to include name of Coater, Bar manufacturer, Resin manufacturer, and Resin trade name.					

Materials Acceptance Requirements					
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Spec. No. Material Name	Basis of Acceptance	Sample Frequency If Req'd	Sample Size	Max. V.I. Quantity	Remarks (QPL Reference)
914.09C Hook Bolts	VI	—	—	—	
914.10 Structure Expansion Anchors (Mechanical Expansion Anchors)	QPL See Remark	—	—	—	Must be a Qualified Product. (712.03K) Pull-out testing is required per QA Manual Sec. D6
914.10 Bolts for Structure Expansion Anchors	Test	1 per 5000 pcs or fraction thereof	1 bolt	250 units	
914.11 Preformed Waterproofing Membrane	QPL See Remark	—	—	—	Must be a Qualified Product (710.02) Do not use on Treated Wood Materials
914.12 Elastomeric Bearing Pads	Gen Cert See Remark	—	—	—	Show Test Result for Shear Modulus, ASTM D4014
914.14D Polyester Fiber (Waterproofing)	Gen Cert	—	—	—	
915 Coating Systems for Steel Structures, Hanger Assemblies and End Diaphragms	QPL	—	—	—	Must be a Qualified Product (915.01)
916.01A Cobblestone	VI	—	—	—	
916.01C Riprap	VI	—	—	—	
916.02 Silt Fence					
Fabricated fence	Appr Mfr *	See Remark	See Remark	500 ft	1 Sample for the first 3,000 ft or fraction thereof; 1 sample for each additional 10,000 feet or fraction thereof 1 piece 6 ft long by full fence height include 2 attached posts & lath Fabric must be a Qualified Product (910.04)
Fabric	QPL				
NOTE: Sample to include identifying markings of fabricator, indicate on sample ID description of markings. Note where markings were found.					
917.03 Nursery Stock	VI	—	—	—	
917.04 Tree Wrapping Material	VI	—	—	—	
917.05 Balling Material	VI	—	—	—	
917.06A Wire for Bracing and Guying	VI	—	—	—	
917.06B Hose for Bracing and Guying	VI	—	—	—	

Materials Acceptance Requirements					
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Spec. No. Material Name	Basis of Acceptance	Sample Frequency If Req'd	Sample Size	Max. V.I. Quantity	Remarks (QPL Reference)
<b>917.06C</b> Stakes for Bracing and Guying	VI	—	—	---	
<b>917.10</b> Chemical Fertilizer for Grass Seed	VI See Remark	—	—	—	Provide the bag label, showing the guaranteed analysis.
<b>917.12</b> Seed and Seeding Mixtures	Appr Mfr *	1 per lot per shipment	1/4 lb	100 lbs	Varieties of seed must be Qualified Product (917.12)
<b>917.13</b> Sod	VI	—	—	—	
<b>917.13A</b> Pegs for Sodding	VI	—	—	—	
<b>917.14</b> Mulching Materials for Nursery Stock	VI	—	—	—	Wood chips not allowed
<b>917.15B</b> High Velocity Mulch Blankets and Standard Mulch Blanket	QPL	—	—	—	Must be a Qualified Product (917.15B) High velocity - netting 2 sides Standard - netting 1 side
<b>917.15C</b> Mulch Anchor Latex, Recycled Newsprint, Wood Fiber, Guar Gum, Other Tackifiers	QPL	—	—	—	Must be a Qualified Product (917.15C)
<b>917.16</b> Weed Control (Herbicides)	Test Data Cert	—	—	—	
<b>918.01</b> Flexible Metal Conduit	VI	—	—	—	
<b>918.01A</b> Electrical Conduit, Rigid (Galvanized Steel)	Test or Tested Stock	See Remark	6 ft, include coupling, if applicable	400 ft	1 sample for 2,500 ft or fraction thereof 2 samples over 2,500 to 10,000 ft 1 sample for each additional 10,000 ft
<b>918.01B</b> Electrical Conduit (Polyvinyl Chloride) Schedule 40 and 80	Gen Cert	See Remark	6 ft sample w/ bell end incl. coupling	400 ft	1 sample for 2,500 ft or fraction thereof 2 samples over 2,500 to 10,000 ft 1 sample for each additional 10,000 ft
<b>918.01D</b> Electrical Conduit (Polyethylene) Schedule 40 and 80	Gen Cert	See Remark	See Remark	400 ft	1 sample for 2,500 ft or fraction thereof 2 samples over 2,500 to 10,000 ft 1 sample for each additional 10,000 ft 6 ft plus a separate section consisting of 2- 18" long pcs. connected by the joint

Materials Acceptance Requirements					
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Spec. No. Material Name	Basis of Acceptance	Sample Frequency If Req'd	Sample Size	Max. V.I. Quantity	Remarks (QPL Reference)
<b>918.01F</b> Electrical Conduit (Rigid Fiberglass)	Gen Cert	See Remark	6 ft sample w/ bell end incl. coupling	400 ft	1 sample for 2,500 ft or fraction thereof 2 samples over 2,500 to 10,000 ft 1 sample for each additional 10,000 ft
<b>918.02</b> Grounding System	VI	—	—	—	
<b>918.03</b> Electrical Cable	See Note	—	—	—	
NOTE: Suitability and compliance with specifications will be determined by the agency responsible for maintaining the system. This agency shall provide the proj engineer with a memo or other appropriate form indicating that the inspection (including review of Test Data Cert) has been made and that the material is acceptable.					
<b>918.06</b> Precast Concrete Handholes & Manholes for Electrical & Telephone Connections	Appr Mfr *	1% per size	—	10 pcs.	
<b>918.06E</b> Light Weight Composite Handholes	QPL	—	—	—	Must be a Qualified Product (918.06)
<b>918.08</b> Light Standards	VI Test Data Cert	—	—	—	
<b>918.09</b> Luminaries	Gen Cert	—	—	—	
<b>918.10A</b> Tower Lighting Units	Fabrication Inspection	—	—	—	QA Manual Sec. D15
<b>918.11E</b> Guy Wire	Test	1 per size	10 feet	—	
<b>919</b> Steel Sleeves for Wood Posts	VI	—	—	—	
<b>919.02</b> Signs (Permanent)	See Remark	—	—	—	See Joint Construction IM 1997 -B and IM 1997 -C. Gen Cert must be attached and Inspection at project site.
<b>919.02A1</b> Metal Sections (Extruded Aluminum)	Tested Stock See Remark	1 from each width in shipment	12 in.long and full width of section		A Test Data Cert must be attached to Sample ID form
<b>919.02A2</b> Plywood	See Remark	—	—	—	Grade mark on materials serves as certification
<b>919.02A3</b> Aluminum Sheet	Tested Stock See Remark	1 per lot or shipment	Min. of 12 in square	100 sft	See C&T Instructional Memo 1997-B. Tested Stock, Test Data Certification must be included

Materials Acceptance Requirements					
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Spec. No. Material Name	Basis of Acceptance	Sample Frequency If Req'd	Sample Size	Max. V.I. Quantity	Remarks (QPL Reference)
<b>919.02B1</b> Reflective Sheeting	QPL See Remark	1 per run or lot	See Remark	1 roll, for less than 3" in width	Must be A Qualified Product (919.02B) 4 pcs. each 12 in square. For rolls less than 12 " in width , at least 7.5 ft
<b>919.02C</b> Sign Hardware	Gen Cert See Remark	—	—	—	Identifying marks on items may serve as certification
<b>919.03A</b> Delineators 1. Plastic Reflectors	Gen Cert	1 per shipment per color	21 pcs.	25 pcs. each color	
<b>919.03B</b> Delineators 2. Reflective Sheeting Reflectors	Gen Cert	1 per shipment per color	2 pcs. of each color	25 piece each color	
<b>919.03D</b> Delineator Posts 1. Steel	Gen Cert	1per proj per mfr	1 post	80 post	
<b>919.03D</b> 2. Plastic	QPL	—	—	—	Must be Qualified Product (919.03D)
<b>919.04</b> Steel, Galvanized Sign Posts	Test Data Cert	1per proj, 1 per manufacturer	See Remark	20 posts	Sample 30 in length min. weigh 5 posts to determine weight per foot. Put on ID Posts for Temporary signs may be painted
<b>919.05</b> Wood Sign Posts	Appr Mfr * or Tested Stock	Each charge	22 cores	20 posts	
<b>919.06</b> Break-Away Column Sign Supports	Fabrication Inspection See Remark	—	—	—	QA Manual Sec. D11 and Subsection 919.07 of standard specifications
<b>919.07</b> Sign Support Structures	Fabrication Inspection See Remark	—	----	—	QA Manua1 Sec. D11
<b>920.01</b> Cold Plastic Tape, Permanent (Long Line, Legends, & Crosswalks)	QPL	—	—	—	Must be a Qualified Product (920.01i)
<b>920.01B</b> Glass Beads	Gen Cert	1 from each lot	2 lb	500 lbs	
<b>920.01B2a</b> Waterborn, Liquid Pavement Marking Material	QPL	—	—	—	Must be a Qualified Product (920.01ii)
<b>920.01B2b</b> Regular (Solvent), Liquid Pavement Marking materials	QPL	—	—	—	Must be a Qualified Product (920.01ii)
<b>920.01B2c</b> Epoxy, Liquid Pavement Marking Materials	QPL	—	—	—	Must be a Qualified Product (920.01ii)
<b>920.01B2c</b> Polyurea, Liquid Pavement Marking Materials	QPL				Must be a Qualified Product (920.01ii)

Materials Acceptance Requirements					
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Spec. No. Material Name	Basis of Acceptance	Sample Frequency If Req'd	Sample Size	Max. V.I. Quantity	Remarks (QPL Reference)
<b>920.01B2d</b> Thermoplastic, Liquid Pavement Marking Material	QPL	—	—	----	Must be a Qualified Product (920.01ii)
<b>920.01B2e</b> Thermoplastic, Sprayable, Liquid Pavement Marking Material	QPL	—	—	----	Must be a Qualified Product (920.01ii)
<b>920.01C</b> Raised Pavement Markers	QPL	—	—	----	Must be a Qualified Product (920.01ii)
<b>921.02</b> Span wire	Gen Cert	1 per size	6 ft		
<b>921.03</b> Traffic Signals and Mounting Assemblies	See NOTE	—	—	—	
NOTE: Compliance with specifications will be determined by the agency responsible for maintaining the system. Agency must provide the project engineer with a memo or other appropriate form indicating that the inspection has been made and the material is acceptable.					
<b>921.05</b> Traffic Signal Strain Poles	VI and Test Data Cert	—	—	—	
<b>922.02</b> Traffic Maintenance and Control Temp Signs, Reflective Sheeting	VI or QPL <b>See Remark</b>	—	----	----	For 1996 Spec, reflective sheeting may be a Qualified Product or meet 2003 specifications (919.02B)
<b>922.03</b> Traffic Maintenance and Control, A. Cones and B. Drums	VI or QPL <b>See Remark</b>	—	—	—	For 1996 Spec, reflective sheeting may be a Qualified Product or meet 2003 specifications (919.02B)
<b>922.03D</b> Traffic Maintenance and Control Type III Barricade, Reflective Sheeting	VI or QPL <b>See Remark</b>	—	—	—	For 1996 Spec, reflective sheeting may be a Qualified Product or meet 2003 specifications (919.02B)
<b>922.03E</b> Traffic Maintenance and Control Temporary Concrete Barriers	Test Data Cert	Each proj	—	—	Contractor testing and Cert Verification per MTM-716.
<b>922.03E1</b> Barrier Reflector Markers Temporary and Permanent	VI or QPL	—	—	—	For 1996 Spec, reflective sheeting may be a Qualified Product or meet 2003 specifications (919.02B)
<b>922.04A</b> Traffic Maintenance and Control Temporary Pavement Markings; Type R and NR Tape	QPL	—	—	—	Must be a Qualified Product (922.04)
<b>922.04A</b> Traffic Maintenance and Control Temporary Pavement Markings; Paint	QPL <b>See Remark</b>	---	—	—	For 1996 Spec, see Specific Paint Type in Sec 920.01
<b>922.04B</b> Temp. Raised Pavement Markers	QPL	—	—	—	Must be a Qualified Product



Materials Acceptance Requirements					
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Spec. No. Material Name	Basis of Acceptance	Sample Frequency If Req'd	Sample Size	Max. V.I. Quantity	Remarks (QPL Reference)
<b>922.05</b> Traffic Maintenance and Control Lighted Arrows Type B and C (Solar Assist)	VI or QPL <b>See Remark</b>	Each sign per proj	Full unit	—	Contractor to allow two week lead time for inspection. Construction Inspection Report required. For 1996 Spec, Type C may be a Qualified Product or meet 2003 specifications
<b>922.05B</b> Traffic Maintenance and Control Warning flashers & lights Type A,B,C	VI See Remark	Each proj	3 each type		Units submitted for test when required by project engineer will be returned to the contractor upon completion of testing.
<b>922.05C</b> Portable Changeable Message Signs	VI				Contractor to allow two week lead time for inspection.
<b>922.07</b> Traffic Maintenance and Control Sign Paddles and Vests	VI See Remark	---	---	---	VI for conformance to the MMUTCD, Sec. 6F-2, and the MDOT Traffic Regulators Instruction Manual. MDOT Guidance Document 10118
<b>922.08A</b> Traffic Maintenance and Control Dust Palliative 1. Calcium Chloride Solids	Test	1 per proj	5 lb	5000 lb	
<b>922.08A</b> Traffic Maintenance and Control Dust Palliative 2. Calcium Chloride Solutions	Test	1 per proj	1 quart	1000 gal.	
<b>Misc. #1</b> Aluminum Bridge Railing	See NOTE:	—	—	—	Test Data Certification, requires a mill certification and a visual inspection of the material. The project engineer is to arrange for this inspection which should include dimensional and thorough visual checks on all material especially for blowholes on posts and caps.
<b>Misc.#2</b> Cast Iron and Ductile Iron (Watermain & Culverts)	Gen Cert	—	—	250 ft	
<b>Misc. # 3</b> Clay Pipe	Gen Cert	See Remark	See Remark	10 pieces	See Special Instructions
<b>Misc. # 4</b> Silicone Joint Seal	Test Data Cert	1 per batch	1 gal, in 1 gal friction top can		
<b>Misc.# 5</b> Galvanized Slotted Drain Pipe	VI See Remark	—	—	—	MDOT approval of Design is required. Coating thickness checked at project site.
<b>Misc. # 7</b> ABS Pipe	Test	1 per 6000 Ft.	1 piece, 6 ft in length.	600 ft	If bell and spigot joint, sample from bell end
<b>Misc. # 8</b> Corrugated Galvanized Steel Structural Plated	Gen Cert	1 per 100 plates or fraction thereof	1 piece at least 3 by 3 inch	10 plates	
<b>Misc. # 9</b> Aluminum Alloy Structural Plates	Gen Cert	—	—		

Materials Acceptance Requirements					
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Spec. No. Material Name	Basis of Acceptance	Sample Frequency If Req'd	Sample Size	Max. V.I. Quantity	Remarks (QPL Reference)
<b>Misc. # 10</b> Non-Shrinking Mortar and Grout Type H-2(Non- Metallic) Admixture, Job mixed	QPL	—	—	—	1996 Std. Spec. Must be a Qualified Product (702.02B)
<b>Misc. # 11</b> No Longer in the Standard Specifications for Construction.					
<b>Misc. # 12</b> Bar Reinforcement (Epoxy Coated Spiral)	Gen Cert	—	----	—	
<b>Misc. # 13</b> Pavement Warning Strips	VI	—	—	—	
<b>Misc. # 14</b> Bituminized Cotton Fabric and Fiberglass Fabric	Gen Cert	See Remark	1 piece full width of roll, min. of 3 ft	5 rolls	1 per 100 rolls (50 sft per roll) or fraction thereof. For lots of more than 100 rolls - 1 samp. plus 1 for each 500 rolls or fraction thereof. Do not sample from first 3-4 ft of roll.
<b>Misc. # 15</b> Adjusting Rings (Recycled Rubber) for Manholes and Drainage Structures	VI  See Remark				Allowable alternative as approved by C&T Support Area
<b>Spec. Prov. # 1</b> Liner for Culverts A. Polyethylene Plastic Pipe	Gen Cert	—	—	—	
<b>Spec. Prov. # 2</b> B. Reinforced Plastic Mortar Pipe	Gen Cert	—	—	—	
<b>Spec. Prov. # 3</b> Railroad Ballast	Test	1 per 5000 ton	60 lb	500 tons	See Upran Specifications for Trackwork
<b>Spec. Prov. # 4</b> Expansion Joint Devices for Bridges	See Remark	—	—	—	Approved devices are in Special Provision. Contractor must supply list of those used and provide shop drawings
<b>Spec. Prov. # 5</b> Protective Polymer Coating For HMA Pavt at Snowmobile Trail Crossing	QPL	None	—	—	Must be a Qualified product
<b>Spec. Prov. # 6</b> Truck Mounted Attenuator	Gen Cert	—	—	—	See Special Provision in Contract

\*\*\*\*\* See following pages for SPECIAL INSTRUCTIONS (Pages 19 - 24) \*\*\*\*\*

## SPECIAL INSTRUCTIONS

### 901 Cement Certification Verification Sampling Schedule

<u>Quantity of Concrete to State Projects (per Week) *</u>	<u>Frequency</u>
Less than 500 cyds	1 per 1000 cyd
500 cyd to 2000 cyd	1 every month
2000 cyd to 6000 cyd	1 every other week
Over 6000 cyd	1 per 12,000 cyd

The plastic lined cement sample bags furnished by the laboratory will hold 10 lb when full.

\* Quantity estimated and based upon work in area, season of the year, orders, past experiences, etc.

### 907.03 Woven Wire Fencing Materials, Steel Posts

#### Sample Size:

5 posts. If compliance with weight requirements can be accurately determined in the field by weighing 5 posts selected at random (with ground plates removed), only one post need be submitted for a sample. Include complete weight information on sample identification.

Maximum for VI: 15 end, corner, gate and brace posts; 80 line posts for Woven Wire.

NOTE: An alternate zinc/clear coat system shall be applied for pipe sections only. This alternate coating system shall consists of 2 oz./sq.ft of zinc coating on all surfaces of the pipe according to ASTM A 123. A clear acrylic coating having a min. of thickness of 7.6 microns shall be applied to the exterior surface after galvanizing.

### 907.04 Steel Chain Link Fence Materials, Posts for Fence and Gates (Steel)

#### Sample Size:

5 posts. If compliance with weight requirements can be accurately determined in the field by weighing 5 posts selected at random (with ground plates removed), only one post need be submitted for a sample. Include complete weight information on sample identification.

Maximum for V.I: gate posts, 15 each; line posts, 25 each

NOTE: An alternate zinc/clear coat system will be allowed for pipe sections only. This alternate coating system shall comply with subsection 907.03D of 2003 Standard Specifications for Construction.

#### 909.04A Reinforced Concrete Pipe

Size of Sample - Full size units for strength test. For absorption tests, 26 inch square to 81 inch square in area from the wall of each piece of pipe tested.

Number of Samples - One percent of the number of pieces of each size.

Reinforced concrete pipe 42 inch diameter and larger may be tested by coring. Size of core will be 4 inch nominal diameter (but not less than 3-1/4 inches actual). Up to 1 percent of the number of pieces of pipe for each size, but not less than three pieces, will be selected for coring. One core will be drilled and tested from each of these test pieces. Reinforcement will be inspected prior to incorporation in the pipe.

#### 909.04C Nonreinforced Concrete Pipe

Size of Sample - Same as reinforced concrete pipe.

Number of Samples - One percent of the number of pieces, but not less than two pieces of each size except that at the option of the Department the following sampling schedule will apply for 4 inches through 24 inches in diameter sewer pipe for quantities of 500 or more:

##### SAMPLING SCHEDULE

500 to 1,000 pieces.....	6
1,001 to 2,000 pieces.....	8
2,001 to 5,000 pieces.....	11
Over 5,000 pieces.....	2 samples per 1,000 or fraction thereof

#### 909.05A Corrugated Steel Pipe

Size of Sample - A 6 inch by 3 inch (minimum) section cut from the pipe. The sample should be taken from the end of the pipe avoiding the seams. Care should be taken to assure the coating is not damaged during sampling.

Number of Samples - Per the following table:

<u>Diameter of Pipe, Inches</u>	<u>Quantity Represented, Maximum</u>
12 inches or less	2500 ft
15 inches through 54 inches	1000 ft
60 inches and over	500 ft

Less than five percent of the quantity in the above table may be visually inspected.

#### 909.05A1 Corrugated Galvanized Steel Sheets

Size of Sample - One strip the full width of the sheet and 3 ½ inches in the direction of the length of the sheet. The strip may be cut from the end of the sheet for material coated in coils. If the sheets were individually coated after being cut to length, as indicated by heavy accumulations of zinc at one end, the sample strip shall be cut from the end opposite the heavy accumulation and after cutting four inches from the end of the sheet.

Number of Samples - Per the following:

Diameter of Pipe	Length of Sheet	Quantity Represented (max)
12 inches or less	44 inches or less	2500 ft
15 through 54 inches	50 to 175 inches (approx*)	1000 ft
60 inches and over	190 inches and over*	500 ft

\*Larger pipe may be made from combination of shorter sheets. Less than five percent of the quantity in the table above may be visually inspected.

NOTE: Normally each heat and thickness is to be sampled. Exception may be made where quantities are limited and/or mixtures of heat numbers are excessive.

#### 909.05B Corrugated Aluminum Alloy Sheets

Size of Sample - A transverse strip full width of the sheet and at least 3 inches in length cut from the end of the sheet.

Number of Samples - A sample shall be taken from each of three different sheets for lots weighing five tons or less, from four sheets for lots weighing more than five tons and less than ten tons, and from five sheets for lots weighing ten tons or more.

Less than 25 sheets may be visually inspected.

#### 909.06A Corrugated Polyethylene Pipe (Smooth Lined Type S or Corrugated)

Sampling Frequency:

Straight Lengths, 12 inch dia. and over - 1 per 1000 ft

Sample Size:

Over 12 inch dia. - one 10 ft length and one 6 ft length plus coupling

Maximum for VI: 12 inch dia. and over - 100 ft

For perforated pipe wrapped in geotextile fabric, tie fabric securely in place on sample before cutting pipe sample. Do not disturb fabric after cutting.

Suppliers shall provide MDOT inspector with list of date codes on pipe in stockpile to be tested prior to sampling.

Each size pipe is a different material, Stock pile each pipe size separately.

#### Perforated Pipe

12 inches in diameter and above shall be tested for acceptance on a project-by-project basis when specified by Special Provision (No Tested Stock).

Watertight sleeves shall be submitted with a pipe section 12 inches minimum length and gasket fully inserted into one end of the sleeve. A second gasket shall be supplied already installed on either the 10 ft specimen, or on a separate specimen at least 12 inches in length, from the same stockpile.

Single Gasket Bell and Spigot Fused Coupling System - Couplers shall be submitted as attached part of 10 ft specimen and a second piece of the specimen, minimum of 12 inches in length, with gasket installed shall be included with the sample.

Each size pipe is a different material, stock pile each pipe size separately.

For perforated pipe and tubing wrapped in geotextile fabric, tie fabric securely in place on sample before cutting pipe sample. Do not disturb fabric after cutting.

909.07 Corrugated Polyethylene Tubing (Perforated and Non-Perforated) (Wrapped & Non-Wrapped)

Sampling Frequency:  
From Coils - 1 per 5000 ft

Sample Size:  
One 10 ft length plus coupling. For perforated tubing wrapped in geotextile fabric, tie fabric securely into place before cutting sample. Do not disturb fabric after cutting.

909.08A Down Spouts for Bridge, Polyethylene (PE) Plastic Pipe

Normal Sampling Frequency:  
From Coils - 1 per 5000 ft  
Straight Lengths, Less than 12 inches dia. - 1 per 2500 ft  
Straight Lengths, 12 inches in dia. and over - 1 per 1000 ft

Sample Size: Over 12 inches in dia. - one 10 ft length and one 6 ft length plus coupling

Maximum for VI: Less than 12 inches dia. - 250 ft  
12 inches dia. and over - 100 ft

NOTE: Suppliers shall provide MDOT inspector with list of date codes on pipe in stockpile to be tested prior to sampling.

Perforated Pipe: See subsection 909.06A of the Standard Specifications for Construction.

910.03 Geotextiles

Sampling Frequency - Obtain Certification Verification samples for geotextiles when the quantity of each material type on any particular project exceeds the following amounts:

<u>Geotextile</u>	<u>First Sample</u>	<u>Additional Samples</u>
Blanket	1200 syd	7,500 syd
Liner for Riprap	1200 syd	5,000 syd
Separator/Stabilization	1200 syd	25,000 syd
Liner for Heavy Riprap	1200 syd	4,000 syd

Sample Size: Sample shall be a minimum of 3 ft long by the full roll width, with a 3 syd minimum.

Maximum for VI: 360 syd (3200 sq ft)

**NOTE:**

Woven geotextile must be **rolled**, not folded, and shipped in a manner to prevent creases in the fabric.

914.04D Neoprene Joint Seal

Sample: Each sample to be a minimum of 1 yd. (straight or loosely rolled - no kinks) (2 ft for bridge seals). Samples shall to be collected, randomly within each lot of production.

914.05 Epoxy Binder, For Joint Spall Repair

Normal Sampling Frequency: 1 per lot or batch number

Sample Size:

For material mixed at 1:1 ratio - 2 qt., 1 qt of each component: For material mixed at 2:1 ratio - ½ gal of resin and 1 qt. of curing agent. Material limited to shelf life of one year from date of manufacture. Material must be labeled with date of manufacture. MAY BE "TESTED STOCK" ITEM.

Maximum for VI: 5 gal.

917.10 Grass Seed Sampling Information

For lots of one (1) to six (6) bags, sample each bag. For lots of more than six bags, sample five (5) bags plus at least ten percent (10%) of the bags in the lot. It is not necessary to sample more than thirty (30) bags in any single lot.

**NOTE:**

Samples are to be sent to Construction & Technology Division.

Acceptance by the Project Engineer is based on visual inspection of original, sewn-on bag tickets for verification of quantity and source of seed. The guaranteed analysis on the ticket will constitute the certification of this product by the Approved Certifier.

Misc. # 6 Clay Pipe

Normal Sampling Frequency:

One percent of the number of pieces, but not less than two pieces of each size except that at the option of the Department the following sampling schedule will apply for 4 in through 24 in diameter sewer pipe for quantities of 500 or more:

## SAMPLING SCHEDULE

500 to 1,000 pieces.....	6
1,001 to 2,000 pieces.....	8
2,001 to 5,000 pieces.....	11
Over 5,000 pieces.....	2 samples per 1,000 or fraction thereof

### Sample Size:

Full size units for strength test. For absorption tests, 26 inches square to 82 inches square in area from the wall of each piece of pipe tested.

Maximum for VI: 10 pieces

Misc. #7 Silicone Joint Sealant Contact Construction & Technology Division at (517) 322-1652 prior to use.

Sampling Frequency: 1 per batch

Sample Size: 1 gal., preferably in one-gallon friction top can.

### Procedure:

1. While filling container, consolidate sample material to eliminate entrapped air.
2. After container is filled, lay a piece of 4 to 6 mill polyethylene film directly on the top of the sealant to reduce "skin-over".
3. Replace lid on sample container - assure that friction lid is completely seated.
4. Carefully re-seal the container from which the sample was taken.